PROBLEM SOLVED

MAKING SENSE OF MATHEMATICS

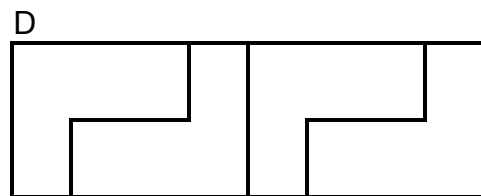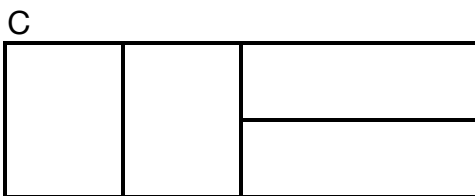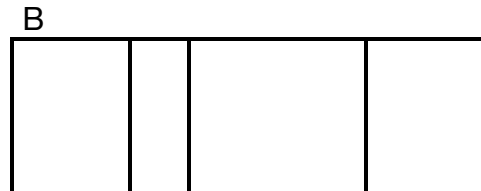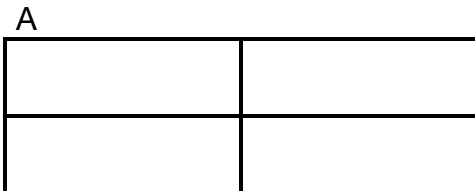1. One rainy Saturday afternoon, Dion read one half of a book. His brother Jared also read one half of a book. Jared said that he read more than Dion, but Dion said they read the same amount.

   Explain how Jared could be right.

   Explain how Dion could be right.

2. Haley said there are many of ways to split a rectangular region into fourths and showed the following ways:

   A

   B

   C

   D

   E

   F
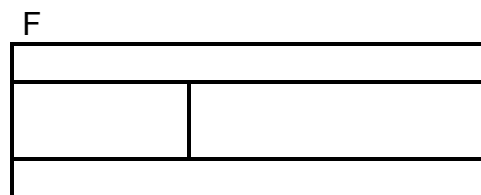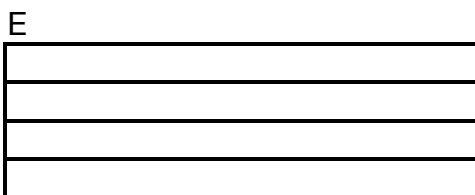
   Which of the rectangular regions do **<u>not</u>** show fourths?

   Show how you could move exactly one line segment to fix the incorrect diagrams.

MakingSense

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3. A teacher showed his class two black marbles and five white marbles. He then asked the class, "What fraction of the marbles are black?"

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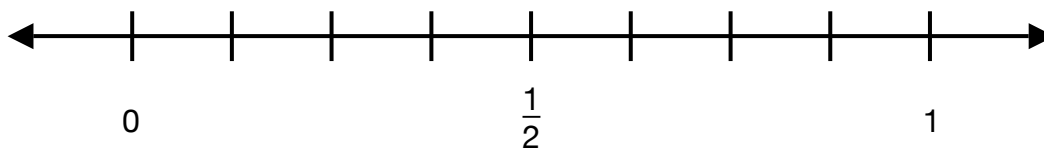
Ten students answered, "Two fifths."

Six students answered, "Two sevenths."

One student answered, "Five sevenths."

What is the correct answer?

Describe why the other two answers are incorrect.

4. Use a dot to show the location of three eighths on the number line below. Explain how you determined your answer.

0          $\frac{1}{2}$ 1

5. Use a dot to show the location of three fourths on the number line below. Explain how you determined your answer.

0          $\frac{1}{2}$ 1

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